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artur-shaik / vim-javacomplete2

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No longer completes classes on Android #225

New Issue

Closed

DonnieWest opened this issue on 16 Mar · 30 comments



DonnieWest commented on 16 Mar

Actual behavior (Required!)

When attempting to complete an import in an Android project, Javacomplete says "packages still empty, try later. indexing..." even on non-android imports

Also related behavior, when completing within a class that extends an Android component there are missing completions when completing `this` or `super`

Expected behavior (Required!)

Should give imports and complete android related classes

The steps to reproduce actual behavior (Required!)

1. Create a basic Android Studio project or use [Plaid](#)
2. Open the MainActivity.java or other file that extends an Activity
3. Attempt to complete an android import
4. `:messages` will show that the app is indexing, even after several minutes
5. Move to class body and attempt completing `this` or `super` and receive no results or ones that are missing

Environment (Required!)

- OS: Archlinux
- Neovim version: Neovim 1.3.0-68-gd19af41

Q&A

- ☒ Yes, I tried minimal `.vimrc` configuration.
- ☒ Yes, I have enabled logs with `JCdebugEnableLogs` and can put here content of `JCdebugGetLogContent` command, if you need.
- ☒ Even, if you wish, I can set `g:JavaComplete_JavaviDebug` to `1`, than set `g:JavaComplete_JavaviLogfileDirectory`, and put here server logs, too.
  - For clarification my minimal vim was simply setting runtimepath to the location of vim-javacomplete2 and setting the omnifunc

Additional information

I'm opening this issue to solicit insight from others and begin tracking down what exactly is causing this. I'm happy to provide additional information, and I suspect that this is not Android specific but I'm only getting these issues within Android projects right now

Labels

None yet

Milestone

No milestone

Assignees

No one assigned

3 participants



artur-shaik commented on 16 Mar

Owner

Please, can you provide `JavaviDebug` logs?



**wsdjeg** commented on 16 Mar

**@DonnieWest**

test with plaid `./gradlew build` show me

```
FAILURE: Build failed with an exception.

* Where:
Build file '/home/wsdjeg/forks/plaid/app/build.gradle' line: 17

* What went wrong:
A problem occurred evaluating project ':app'.
> Failed to apply plugin [id 'com.android.application']
   > Gradle version 2.10 is required. Current version is 2.8. If using the gradle wrapper,

* Try:
Run with --stacktrace option to get the stack trace. Run with --info or --debug option to g

BUILD FAILED

Total time: 1.036 secs
```



**DonnieWest** commented on 16 Mar

**@wsdjeg** must be a sad bug on their end - try editing the distributionUrl in  
/home/wsdjeg/forks/plaid/gradle/wrapper/gradle-wrapper.properties to gradle-2.10-all.zip

**@artur-shaik** I'll get those logs to you tonight



**DonnieWest** commented on 17 Mar

<http://pastebin.com/kfJ4nyzY> - javavi debug

<http://pastebin.com/XP2Y6qrL> - cache file

You can see in the Javavi Debug log that it has a "file not found" exception, but my cache file (it's the very first entry, so you don't have to go find it in all the jars being included) correctly lists the location without the "." in front of the path



**artur-shaik** commented on 17 Mar

Owner

Hm, look like we missed `:` symbol.



**artur-shaik** commented on 17 Mar

Owner

Can you try again with [1dd7b6b](#) ?



**DonnieWest** commented on 17 Mar

Thank you! That fixes the import statements, but it does not fix completions on `this` and `super`



**artur-shaik** commented on 17 Mar

Owner

**@DonnieWest** nice. Can you show class declaration, just want try to reproduce it.



**DonnieWest** commented on 18 Mar

I went ahead and created a the smallest sample application that I can get to trigger this: the class declaration in question can be found [here](#)

Unfortunately, it's still an Android project so I know it would be most helpful to whittle down exactly what is

causing issues with JavaComplete2. It's something I'll experiment with

Edit: My class currently extends AppCompatActivity, but changing it and the import statement to a vanilla Android Activity class causes completion to work properly. Here is the source code for [Activity](#) and [AppCompatActivity](#) in case it helps anyone else



**wsdjeg** commented on 18 Mar

I will try it tonight .



**artur-shaik** commented on 18 Mar

Owner

Strange behavior, when we try to find class in class path we have this exception:

```
Search class: android.support.v7.app.AppCompatActivity
java.lang.NoClassDefFoundError: android/support/v4/app/ActivityCompatApi23$RequestPermissionsRequestCodeValidator
    at java.lang.ClassLoader.defineClass1(Native Method)
    at java.lang.ClassLoader.defineClass(ClassLoader.java:760)
    at java.security.SecureClassLoader.defineClass(SecureClassLoader.java:142)
    at java.net.URLClassLoader.defineClass(URLClassLoader.java:467)
    at java.net.URLClassLoader.access$100(URLClassLoader.java:73)
    at java.net.URLClassLoader$1.run(URLClassLoader.java:368)
    at java.net.URLClassLoader$1.run(URLClassLoader.java:362)
    at java.security.AccessController.doPrivileged(Native Method)
    at java.net.URLClassLoader.findClass(URLClassLoader.java:361)
    at java.lang.ClassLoader.loadClass(ClassLoader.java:424)
    at sun.misc.Launcher$AppClassLoader.loadClass(Launcher.java:331)
    at java.lang.ClassLoader.loadClass(ClassLoader.java:357)
    at java.lang.ClassLoader.defineClass1(Native Method)
    at java.lang.ClassLoader.defineClass(ClassLoader.java:760)
    at java.security.SecureClassLoader.defineClass(SecureClassLoader.java:142)
    at java.net.URLClassLoader.defineClass(URLClassLoader.java:467)
    at java.net.URLClassLoader.access$100(URLClassLoader.java:73)
    at java.net.URLClassLoader$1.run(URLClassLoader.java:368)
    at java.net.URLClassLoader$1.run(URLClassLoader.java:362)
    at java.security.AccessController.doPrivileged(Native Method)
    at java.net.URLClassLoader.findClass(URLClassLoader.java:361)
    at java.lang.ClassLoader.loadClass(ClassLoader.java:424)
    at sun.misc.Launcher$AppClassLoader.loadClass(Launcher.java:331)
    at java.lang.ClassLoader.loadClass(ClassLoader.java:357)
    at java.lang.Class.forName0(Native Method)
    at java.lang.Class.forName(Class.java:264)
    at kg.ash.javavi.readers.Reflection.exist(Reflection.java:45)
```

Somebody know what is

`android.support.v4.app.ActivityCompatApi23$RequestPermissionsRequestCodeValidator` ? Where is it, and how it refers to `android.support.v7.app.AppCompatActivity` ?



**wsdjeg** commented on 18 Mar

test with your test project

`./gradlew build` shows

```
FAILURE: Build failed with an exception.



* What went wrong:
A problem occurred configuring project ':app'.
> Could not resolve all dependencies for configuration ':app:_debugCompile'.
   > Could not find com.android.support:appcompat-v7:23.2.1.
      Searched in the following locations:
        https://jcenter.bintray.com/com/android/support/appcompat-v7/23.2.1/appcompat-v7-2
        https://jcenter.bintray.com/com/android/support/appcompat-v7/23.2.1/appcompat-v7-2
      Required by:
        Sample-Project-for-Javacomplete-225:app:unspecified

* Try:
Run with --stacktrace option to get the stack trace. Run with --info or --debug option to g

BUILD FAILED

Total time: 7.942 secs
```

but I have installed the support lib in sdk

☐  **Android Support Library** | 23.2.1 |  **Installed**



**wsdjeg** commented on 18 Mar

**@DonnieWest** I think maybe it is not the issue with javacomplete2, because with the latest SDK, I can not see v7 jars in the support lib directory, but I can see V4 V13 in V7 directory, only `src` directory

```
wsdjeg@wsdjeg-K43SJ:~$ cd tools/android-sdk-linux/extras/android/support/
wsdjeg@wsdjeg-K43SJ:~/tools/android-sdk-linux/extras/android/support$ tree -L 2
.
├── annotations
│   └── android-support-annotations.jar
├── customtabs
│   ├── AndroidManifest.xml
│   └── libs
├── design
│   ├── AndroidManifest.xml
│   ├── libs
│   ├── res
│   ├── res-public
│   └── src
├── graphics
│   └── drawable
├── multidex
│   ├── instrumentation
│   └── library
├── NOTICE.txt
├── package.xml
├── percent
│   ├── AndroidManifest.xml
│   ├── libs
│   ├── res
│   └── src
├── README.txt
├── recommendation
│   ├── AndroidManifest.xml
│   └── libs
├── samples
│   ├── Support13Demos
│   ├── Support4Demos
│   ├── Support7Demos
│   └── SupportAppNavigation
├── source.properties
├── v13
│   ├── android-support-v13.jar
│   └── src
├── v14
│   └── preference
├── v17
│   ├── leanback
│   └── preference-leanback
├── v4
│   ├── android-support-v4.jar
│   └── src
└── v7
    ├── appcompat
    ├── cardview
    ├── gridlayout
    ├── mediarouter
    ├── palette
    ├── preference
    └── recyclerview
```

41 directories, 11 files

wsdjeg@wsdjeg-K43SJ:~/tools/android-sdk-linux/extras/android/support\$



**DonnieWest** commented on 18 Mar

**@artur-shaik** I can dig deeper when I get home, but that class is referenced through AppCompatActivity.java [here](#)

Which is [here](#)

and finally defined [here](#)

**@wsdjeg** I can find the file by running `find . -name "*appcompat.jar"` in mine. Your `tree` command is only going a depth of 2 and so you won't find the jar. Mine is found

```
$ANDROID_HOME/extras/android/support/v7/appcompat/libs/android-support-v7-appcompat.jar
```

When I get home tonight, if you're still having problems, I can help you get configured and this working



**wsdjeg** commented on 18 Mar

opps,

```
✓ wsdjeg:DotFiles [ master | + 1 ] ↻ ls $ANDROID_HOME/extras/android/support/v7/appcompat/1
android-support-v4.jar  android-support-v7-appcompat.jar
✓ wsdjeg:DotFiles [ master | + 1 ] ↻
```

but I do not know why `./gradlew build` can not work



**artur-shaik** commented on 19 Mar

Owner

Ok, so, if I add this to vimrc:

```
let g:JavaComplete_LibsPath = '/androidproject/app/build/intermediates/exploded-aar/com.and
```

completion works.

Now we need understand, why path to this `jar` doesn't exist in gradle results.



**wsdjeg** commented on 19 Mar

can you us `./gradlew build` to build the app?



**artur-shaik** commented on 19 Mar

Owner

**@wsdjeg** I used another android project, I found on my PC.

But for this test project, I have the same results as you.



**DonnieWest** commented on 19 Mar

**@artur-shaik @wsdjeg** I forgot that I have the experimental repositories enabled on my Android SDK - sorry guys! :/

That does fix the issue! I'll write up a fix and submit a pull request shortly



**DonnieWest** referenced this issue on 19 Mar

**Have gradle include all jars, not just classes.jar #230**

Merged



**wsdjeg** commented on 19 Mar

**@DonnieWest** but how to fix `./gradlew build` for the test project you shown above?



**DonnieWest** commented on 19 Mar

**@wsdjeg** You probably need to open the Android sdk and install the latest preview channel tools. My Sample project, however, is just a project created by Android Studio with a single blank activity



**wsdjeg** commented on 19 Mar

so you means you can use `./gradlew build` sucessfully in the command line?



artur-shaik closed this in #230 on 19 Mar



DonnieWest commented on 19 Mar

@wsdjeg I can on my machine. I'm running Archlinux with Java 8 and the latest Android SDK Preview Channel Tools enabled and insalled



wsdjeg commented on 19 Mar

😞 How to enable latest sdk preview channel?



wsdjeg commented on 19 Mar

I am sorry,maybe it is due to I can not visite `dl.google.com` ,I will try more about it.



DonnieWest commented on 19 Mar

@wsdjeg <https://sites.google.com/a/android.com/tools/preview-channel> maybe this will help you?



wsdjeg commented on 19 Mar

yes,that is what I need.



wsdjeg commented on 19 Mar

`./gradlew build` still can not work,I have install all needed jars in the sdk



wsdjeg commented on 19 Mar

test with your test project

`./gradlew build` shows

FAILURE: Build failed with an exception.

- What went wrong:

A problem occurred configuring project 'app'.

Could not resolve all dependencies for configuration 'app:\_debugCompile'.

Could not find com.android.support:appcompat-v7:23.2.1.

Searched in the following locations:

<https://jcenter.bintray.com/com/android/support/appcompat-v7/23.2.1/appcompat-v7-23.2.1.pom>

<https://jcenter.bintray.com/com/android/support/appcompat-v7/23.2.1/appcompat-v7-23.2.1.jar>

Required by:

Sample-Project-for-Javacomplete-225:app:unspecified

- Try:

Run with `--stacktrace` option to get the stack trace. Run with `--info` or `--debug` option to get more log output.

BUILD FAILED

Total time: 7.942 secs

but I have installed the support lib in sdk

this issue has been fixed by install

☐ Local Maven repository for Support Libra

28 Installed

not the issue about proview channal.



wsdjeg commented on 19 Mar

and after that,when I built this project I get this error  
Cannot run program "/usr/local/android-sdk-linux/build-tools/19.0.3/aapt": error=2, No such file or directory  
also fixed by `sudo apt-get install lib32stdc++6 lib32z1`

```
wsdjeg@wsdjeg-K435J:~$
:app:compileReleaseNdk UP-TO-DATE
:app:compileReleaseSources
:app:lintVitalRelease
:app:prePackageMarkerForRelease
:app:transformClassesWithDexForRelease
:app:mergeReleaseJniLibFolders
:app:transformNative_libsWithMergeJniLibsForRelease
:app:processReleaseJavaRes UP-TO-DATE
:app:transformResourcesWithMergeJavaResForRelease
:app:packageRelease
:app:assembleRelease
:app:assemble
:app:compileLint
:app:lint
Ran lint on variant debug: 2 issues found
Ran lint on variant release: 2 issues found
Wrote HTML report to file:///home/wsdjeg/forks/Sample-Project-for-Javacomplete-225/app/build/outputs/lint-results-debug.html
Wrote XML report to file:///home/wsdjeg/forks/Sample-Project-for-Javacomplete-225/app/build/outputs/lint-results-debug.xml
:app:preDebugUnitTestBuild UP-TO-DATE
:app:prepareDebugUnitTestDependencies
:app:compileDebugUnitTestJavaWithJavac
:app:processDebugUnitTestJavaRes UP-TO-DATE
:app:compileDebugUnitTestSources
:app:mockableAndroidJar
:app:assembleDebugUnitTest
:app:testDebugUnitTest
:app:preReleaseUnitTestBuild UP-TO-DATE
:app:prepareReleaseUnitTestDependencies
:app:compileReleaseUnitTestJavaWithJavac
:app:processReleaseUnitTestJavaRes UP-TO-DATE
:app:compileReleaseUnitTestSources
:app:assembleReleaseUnitTest
:app:testReleaseUnitTest
:app:test
:app:check
:app:build
BUILD SUCCESSFUL
Total time: 43.021 secs
wsdjeg@Sample-Project-for-Javacomplete-225 [ master | ✓ ]
```

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